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09/647.309

SEQUENCE LISTING

<110> Pierre Fabre Mødicament

<120> USE OF ACTIVE P40 CONJUGATES FOR NASAL DELIVERY

<130> D17064

<140> PCT/FR99/00703

<141> 1999-03-26

<150> FR 98 03814

<151> 1998-03-27

<160> 136

<170> PatentIn Vers. 2.0

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<211> 1032

<212> DNA

<213> Klebsiella pneumoniae

<220>

<221> CDS

<222> (1)..(1032)

<223> rP40

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tat gca ggt ggt aaa ctg ggt tgg tcc cag tat cac gac acc ggt ttc 96

Tyr Ala Gly Gly Lys Leu Gly Trp Ser Gln Tyr His Asp Thr Gly Phe

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tac ggt aac ggt ttc cag aac aac aac ggt ccg acc cgt aac gat cag 144

Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln

35 40 45

ctt ggt gct ggt gcg ttc ggt ggt tac cag gtt aac ccg tac ctc ggt 192

Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly

50 55 60

ttc gaa atg ggt tat gac tgg ctg ggc cgt atg gca tat aaa ggc agc 240  
Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser  
65 70 75 80

ggt gac aac ggt gct ttc aaa gct cag ggc gtt cag ctg acc gct aaa 288  
Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys  
85 90 95

ctg ggt tac ccg atc act gac gat ctg gac atc tac acc cgt ctg ggc 336  
Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly  
100 105 110

ggc atg gtt tgg cgc gct gac tcc aaa ggc aac tac gct tct acc ggc 384  
Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly  
115 120 125

ggt tcc cgt agc gaa cac gac act ggc gtt tcc cca gta ttt gct ggc 432  
Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly  
130 135 140

ggc gta gag tgg gct gtt act cgt gac atc gct acc cgt ctg gaa tac 480  
Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr  
145 150 155 160

cag tgg gtt aac aac atc ggc gac gcg ggc act gtg ggt acc cgt cct 528  
Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro  
165 170 175

gat aac ggc atg ctg agc ctg ggc gtt tcc tac cgc ttc ggt cag gaa 576  
Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu  
180 185 190

gat gct gca ccg gtt gtt gct ccg gct ccg gct ccg gct ccg gaa gtg 624  
Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val  
195 200 205

gct acc aag cac ttc acc ctg aag tct gac gtt ctg ttc aac ttc aac 672  
Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn  
210 215 220

aaa gct acc ctg aaa ccg gaa ggt cag cag gct ctg gat cag ctg tac 720  
Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr  
225 230 235 240

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act cag ctg agc aac atg gat ccg aaa gac ggt tcc gct gtt gtt ctg 768  
Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu  
245 250 255

ggc tac acc gac cgc atc ggt tcc gaa gct tac aac cag cag ctg tct 816  
Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser  
260 265 270

gag aaa cgt gct cag tcc gtc gtt gac tac ctg gtt gct aaa ggc atc 864  
Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile  
275 280 285

ccg gct ggc aaa atc tcc gct cgc ggc atg ggt gaa tcc aac ccg gtt 912  
Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val  
290 295 300

act ggc aac acc tgt gac aac gtg aaa gct cgc gct gcc ctg atc gat 960  
Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp  
305 310 315 320

tgc ctg gct ccg gat cgt cgt gta gag atc gaa gtt aaa ggc tac aaa 1008  
Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys  
325 330 335

gaa gtt gta act cag cct cag gct 1032  
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<213> *Klebsiella pneumoniae*

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Tyr Gly Asn Gly Phe Gln Asn Asn Asn Gly Pro Thr Arg Asn Asp Gln  
35 40 45

Leu Gly Ala Gly Ala Phe Gly Gly Tyr Gln Val Asn Pro Tyr Leu Gly  
50 55 60

~~Phe Glu Met Gly Tyr Asp Trp Leu Gly Arg Met Ala Tyr Lys Gly Ser~~  
65 70 75 80

Val Asp Asn Gly Ala Phe Lys Ala Gln Gly Val Gln Leu Thr Ala Lys  
85 90 95

Leu Gly Tyr Pro Ile Thr Asp Asp Leu Asp Ile Tyr Thr Arg Leu Gly  
100 105 110

Gly Met Val Trp Arg Ala Asp Ser Lys Gly Asn Tyr Ala Ser Thr Gly  
115 120 125

Val Ser Arg Ser Glu His Asp Thr Gly Val Ser Pro Val Phe Ala Gly  
130 135 140

Gly Val Glu Trp Ala Val Thr Arg Asp Ile Ala Thr Arg Leu Glu Tyr  
145 150 155 160

Gln Trp Val Asn Asn Ile Gly Asp Ala Gly Thr Val Gly Thr Arg Pro  
165 170 175

Asp Asn Gly Met Leu Ser Leu Gly Val Ser Tyr Arg Phe Gly Gln Glu  
180 185 190

Asp Ala Ala Pro Val Val Ala Pro Ala Pro Ala Pro Ala Pro Glu Val  
195 200 205

Ala Thr Lys His Phe Thr Leu Lys Ser Asp Val Leu Phe Asn Phe Asn  
210 215 220

Lys Ala Thr Leu Lys Pro Glu Gly Gln Gln Ala Leu Asp Gln Leu Tyr  
225 230 235 240

Thr Gln Leu Ser Asn Met Asp Pro Lys Asp Gly Ser Ala Val Val Leu  
245 250 255

Gly Tyr Thr Asp Arg Ile Gly Ser Glu Ala Tyr Asn Gln Gln Leu Ser  
260 265 270

Glu Lys Arg Ala Gln Ser Val Val Asp Tyr Leu Val Ala Lys Gly Ile  
275 280 285

Pro Ala Gly Lys Ile Ser Ala Arg Gly Met Gly Glu Ser Asn Pro Val  
290 295 300

Thr Gly Asn Thr Cys Asp Asn Val Lys Ala Arg Ala Ala Leu Ile Asp  
305 310 315 320

Cys Leu Ala Pro Asp Arg Arg Val Glu Ile Glu Val Lys Gly Tyr Lys  
325 330 335

Glu Val Val Thr Gln Pro Gln Ala  
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<210> 3

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<212> DNA

<213> Respiratory Syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(303)

<220>

<223> G2A

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1 5 10 15

ccg acc acc aaa cag cgt cag aac aaa ccg ccg aac aaa ccg aac aac 96  
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn  
20 25 30

gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg tgc agc atc tgc agc 144  
Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser  
35 40 45

aac aac ccg acc tgc tgg gcg atc tgc aaa cgt atc ccg aac aaa aaa 192  
Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys  
50 55 60

ccg ggc aaa aaa acc acg acc aaa ccg acc aaa aaa ccg acc ttc aaa 240  
Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys  
65 70 75 80

acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg 288  
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val  
85 90 95

ccg acc acc aaa ccg 303  
Pro Thr Thr Lys Pro  
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<210> 4

<211> 101  
<212> PRT  
<213> Respiratory Syncytial Virus (RSV)

<400> 4

Thr Val Lys Thr Lys Asn Thr Thr Thr Gln Thr Gln Pro Ser Lys  
1 5 10 15

Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn  
20 25 30

Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Ser  
35 40 45

Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile Pro Asn Lys Lys  
50 55 60

Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys  
65 70 75 80

Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val  
85 90 95

Pro Thr Thr Lys Pro  
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<212> DNA  
<213> Respiratory Syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(303)

<220>  
<223> G2B

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1 5 10 15

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ccg agc acc aaa agc cgt agc aaa aac ccg ccg aaa aaa ccg aaa gat 96  
Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp  
20 25 30

gat tac cac ttc gaa gtg ttc aac ttc gtg ccc tgc agc atc tgc ggc 144  
Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly  
35 40 45

aac aac cag ctg tgc aaa agc atc tgc aaa acc atc ccg agc aac aaa 192  
Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys  
50 55 60

ccg aaa aag aaa ccg acc atc aaa ccg acc aac aaa ccg acc acc aaa 240  
Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys  
65 70 75 80

acc acc aac aaa cgt gat ccg aaa acc ccg gcg aaa atg ccg aag aag 288  
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85 90 95

gaa atc atc acc aac 303  
Glu Ile Ile Thr Asn  
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<210> 6

<211> 101

<212> PRT

<213> Respiratory Syncytial Virus (RSV)

<400> 6

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1 5 10 15

Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp  
20 25 30

Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys Ser Ile Cys Gly  
35 40 45

Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile Pro Ser Asn Lys  
50 55 60

Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys  
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Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys  
85 90 95

Glu Ile Ile Thr Asn  
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<222> (1)..(303)

<220>  
<223> G2AdCys

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1 5 10 15

ccg acc acc aaa cag cgt cag aac aaa ccg ccg aac aaa ccg aac aac 96  
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn  
20 25 30

gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg agc agc atc tgc agc 144  
Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Ser  
35 40 45

aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc ccg aac aaa aaa 192  
Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys  
50 55 60

ccg ggc aaa aaa acc acg acc aaa ccg acc aaa aaa ccg acc ttc aaa 240  
Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys  
65 70 75 80

acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg 288  
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val  
85 90 95

ccg acc acc aaa ccg 303  
Pro Thr Thr Lys Pro  
100

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<210> 8  
<211> 101  
<212> PRT

<213> Respiratory Syncytial Virus (RSV)

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1 5 10 15

Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn

20 25 30

Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Ser

35 40 45

Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys

50 55 60

Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys

65 70 75 80

Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val

85 90 95

Pro Thr Thr Lys Pro

100

<210> 9

<211> 303

<212> DNA

<213> Respiratory Syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(303)

<220>

<223> G2BdCys

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Thr Ala Gln Thr Lys Gly Arg Ile Thr Thr Ser Thr Gln Thr Asn Lys

1 5 10 15

ccg agc acc aaa agc cgt agc aaa aac ccg ccg aaa aaa ccg aaa gat 96

Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp

20 25 30

gat tac cac ttc gaa gtg ttc aac ttc gtg ccc agc agc atc tgc ggc 144  
Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Gly  
35 40 45

aac aac cag ctg tgc aaa agc atc agc aaa acc atc ccg agc aac aaa 192  
Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile Pro Ser Asn Lys  
50 55 60

ccg aaa aag aaa ccg acc atc aaa ccg acc aac aaa ccg acc acc aaa 240  
Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys  
65 70 75 80

acc acc aac aaa cgt gat ccg aaa acc ccg gcg aaa atg ccg aag aag 288  
Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys  
85 90 95

gaa atc atc acc aac 303  
Glu Ile Ile Thr Asn  
100

<210> 10

<211> 101

<212> PRT

<213> Respiratory Syncytial Virus (RSV)

<400> 10

Thr Ala Gln Thr Lys Gly Arg Ile Thr Thr Ser Thr Gln Thr Asn Lys  
1 5 10 15

Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro Pro Lys Lys Pro Lys Asp  
20 25 30

Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser Ser Ile Cys Gly  
35 40 45

Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile Pro Ser Asn Lys  
50 55 60

Pro Lys Lys Lys Pro Thr Ile Lys Pro Thr Asn Lys Pro Thr Thr Lys  
65 70 75 80

Thr Thr Asn Lys Arg Asp Pro Lys Thr Pro Ala Lys Met Pro Lys Lys  
85 90 95

Glu-Ile-Ile-Thr-Asn  
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<211> 42  
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<222> (1)..(42)

<220>  
<223> G1ACys

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<210> 12  
<211> 14  
<212> PRT  
<213> Respiratory Syncytial Virus (RSV)

<400> 12  
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1 5 10

<210> 13  
<211> 42  
<212> DNA  
<213> Respiratory Syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(42)

<220>  
<223> G1BCys

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<400> 13

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<210> 14  
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<212> PRT  
<213> Respiratory Syncytial Virus (RSV)

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1 5 10

<210> 15  
<211> 42  
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<222> (1)..(42)

<220>  
<223> G1A

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Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
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<210> 16  
<211> 14  
<212> PRT  
<213> Respiratory Syncytial Virus (RSV)

<400> 16  
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<210> 17  
<211> 42  
<212> DNA

<213> Respiratory Syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(42)

<220>

<223> G1B

<400> 17

agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 42  
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<210> 18

<211> 14

<212> PRT

<213> Respiratory Syncytial Virus (RSV)

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<210> 19

<211> 14

<212> PRT

<213> Respiratory Syncytial Virus (RSV)

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<223> Xaa means Orn.

<220>

<223> G1'A

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Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Cys Lys  
1 5 10

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<223> Xaa means Orn.

<220>

<223> G1'B

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Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Cys Lys  
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<211> 14

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<220>

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<223> G1'AdC

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Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Ser Lys  
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<210> 22

<211> 14

<212> PRT

<213> Respiratory Syncytial Virus (RSV)

<220>

<223> Xaa means Orn.

<220>

<223> G1'BdC

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Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Ser Lys  
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<210> 23

<211> 303  
<212> DNA  
<213> Respiratory Syncytial Virus (RSV)

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<223> G2AdCF

<400> 23

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Thr Val Lys Thr Lys Asn Thr Thr Thr Gln Thr Gln Pro Ser Lys  
1 5 10 15

ccg acc acc aaa cag cgt cag aac aaa ccg ccg aac aaa ccg aac aac 96  
Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn  
20 25 30

gat tcc cat tcc gaa gtg tcc aac tcc gtg ccg agc agc atc tgc agc 144  
Asp Ser His Ser Glu Val Ser Asn Ser Val Pro Ser Ser Ile Cys Ser  
35 40 45

aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc ccg aac aaa aaa 192  
Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys  
50 55 60

ccg ggc aaa aaa acc acg acc aaa ccg acc aaa aaa ccg acc ttc aaa 240  
Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys  
65 70 75 80

acc acc aaa aaa gat cat aaa ccg cag acc acc aaa ccg aaa gaa gtg 288  
Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val  
85 90 95

ccg acc acc aaa ccg 303  
Pro Thr Thr Lys Pro  
100

<210> 24  
<211> 101  
<212> PRT  
<213> Respiratory Syncytial Virus (RSV)



<400> 24

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1 5 10 15

Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro Pro Asn Lys Pro Asn Asn  
20 25 30

Asp Ser His Ser Glu Val Ser Asn Ser Val Pro Ser Ser Ile Cys Ser  
35 40 45

Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile Pro Asn Lys Lys  
50 55 60

Pro Gly Lys Lys Thr Thr Thr Lys Pro Thr Lys Lys Pro Thr Phe Lys  
65 70 75 80

Thr Thr Lys Lys Asp His Lys Pro Gln Thr Thr Lys Pro Lys Glu Val  
85 90 95

Pro Thr Thr Lys Pro  
100

<210> 25

<211> 51

<212> DNA

<213> Respiratory Syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(51)

<220>

<223> G4A

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1 5 10 15

aaa  
Lys

51

<210> 26

<211> 17

<212> PRT

<213> Respiratory Syncytial Virus (RSV)

<400> 26

Val Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys  
1 5 10 15

Lys

<210> 27

<211> 51

<212> DNA

<213> Respiratory Syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(51)

<220>

<223> G4AdC

<400> 27

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1 5 10 15

aaa

51

Lys

<210> 28

<211> 17

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<400> 28

Val Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser  
1 5 10 15

Lys

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<210> 29

<211> 51

<212> DNA  
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<220>  
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<220>  
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gtg ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc 48  
Val Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys  
1 5 10 15

aaa 51  
Lys

<210> 30  
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Lys

<210> 31  
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<223> G4BdC

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<400> 31

gtg ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc 48  
Val Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser  
1 5 10 15

aaa 51  
Lys

<210> 32  
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Lys

<210> 33  
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<220>  
<223> Xaa means Orn.

<220>  
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1 5 10 15

Lys

<210> 34  
<211> 17  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<220>

<223> Xaa means Orn.

<220>

<223> G4'AdC

<400> 34

Val Pro Ser Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Ser  
1 5 10 15

Lys

<210> 35

<211> 17

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<220>

<223> Xaa means Orn.

<220>

<223> G4'B

<400> 35

Val Pro Asp Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Xaa  
1 5 10 15

Lys

<210> 36

<211> 17

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<220>

<223> Xaa means Orn.

<220>

<223> G4'BdC

<400> 36

Val Pro Ser Ser Ile Asp Gly Asn Asn Gln Leu Xaa Lys Ser Ile Ser  
1 5 10 15

Lys

<210> 37  
<211> 183  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(183)

<220>  
<223> G200A

<400> 37  
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144  
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc acg acc 183  
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr  
50 55 60

<210> 38  
<211> 61  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 38  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr  
50 55 60

<210> 39

<211> 177

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(177)

<220>

<223> G198A

<400> 39

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144  
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc 177  
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr  
50 55

<210> 40

<211> 59

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 40

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr  
50 55

<210> 41

<211> 171

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(171)

<220>

<223> G196A

<400> 41

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro

1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val

20 25 30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys

35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa

171

Arg Ile Pro Asn Lys Lys Pro Gly Lys

50 55

<210> 42

<211> 57

<212> PRT



<213> Respiratory syncytial Virus (RSV)

<400> 42

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys  
50 55

<210> 43

<211> 165

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(165)

<220>

<223> G194A

<400> 43

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144  
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

cgt atc ccg aac aaa aaa ccg 165  
Arg Ile Pro Asn Lys Lys Pro  
50 55

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<210> 44  
<211> 55  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 44  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

Arg Ile Pro Asn Lys Lys Pro  
50 55

<210> 45  
<211> 159  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(159)

<220>  
<223> G192A

<400> 45  
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144  
Pro Cys Ser Ile Cys Ser Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

---

cgt atc ccg aac aaa  
Arg Ile Pro Asn Lys  
50

159

<210> 46  
<211> 53  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 46  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

Arg Ile Pro Asn Lys  
50

<210> 47  
<211> 153  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(153)

<220>  
<223> G6A

<400> 47  
cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
~~Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val~~  
20 25 30

ccg tgc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa 144  
Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

cgt atc ccg 153  
Arg Ile Pro  
50

<210> 48  
<211> 51  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys  
35 40 45

Arg Ile Pro  
50

<210> 49  
<211> 99  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(99)

<220>  
<223> G7A

<400> 49  
aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg tgc 48  
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys  
1 5 10 15

agc atc tgc agc aac aac ccg acc tgc tgg gcg atc tgc aaa cgt atc 96  
 Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile  
           20                  25                  30

ccg 99  
 Pro

<210> 50  
 <211> 33  
 <212> PRT  
 <213> Respiratory syncytial Virus (RSV)

<400> 50  
 Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Cys  
   1          5                  10                  15

Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Cys Lys Arg Ile  
           20                  25                  30

Pro

<210> 51  
 <211> 183  
 <212> DNA  
 <213> Respiratory syncytial Virus (RSV)

<220>  
 <221> CDS  
 <222> (1)..(183)

<220>  
 <223> G200AdC

<400> 51  
 cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
 Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
   1          5                  10                  15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
 Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
           20                  25                  30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144  
 Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
           35                  40                  45

cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc acg acc 183  
 Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr  
           50                  55                  60

<210> 52  
 <211> 61  
 <212> PRT  
 <213> Respiratory syncytial Virus (RSV)

<400> 52  
 Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
       1                  5                  10                  15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
           20                  25                  30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
           35                  40                  45

Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr Thr Thr  
           50                  55                  60

<210> 53  
 <211> 177  
 <212> DNA  
 <213> Respiratory syncytial Virus (RSV)

<220>  
 <221> CDS  
 <222> (1)..(177)

<220>  
 <223> G198AdC

<400> 53  
 cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
 Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
       1                  5                  10                  15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144  
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa aaa acc 177  
Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr  
50 55

<210> 54  
<211> 59  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 54  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys Lys Thr  
50 55

<210> 55  
<211> 171  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(171)

<220>  
<223> G196AdC

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<400> 55

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144  
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

cgt atc ccg aac aaa aaa ccg ggc aaa 171  
Arg Ile Pro Asn Lys Lys Pro Gly Lys  
50 55

<210> 56  
<211> 57  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 56  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

Arg Ile Pro Asn Lys Lys Pro Gly Lys  
50 55

<210> 57  
<211> 165  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)...(165)

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<220>  
<223> G194AdC



<400> 57

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144  
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

cgt atc ccg aac aaa aaa ccg 165  
Arg Ile Pro Asn Lys Lys Pro  
50 55

<210> 58

<211> 55

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 58

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

Arg Ile Pro Asn Lys Lys Pro  
50 55

<210> 59

<211> 159

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(159)

<220>

<223> G192AdC

<400> 59

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144  
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

cgt atc ccg aac aaa 159  
Arg Ile Pro Asn Lys  
50

<210> 60

<211> 53

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 60

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

Arg Ile Pro Asn Lys  
50

<210> 61

<211> 153

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(153)

<220>

<223> G6AdC

<400> 61

cag acc cag ccg agc aaa ccg acc acc aaa cag cgt cag aac aaa ccg 48  
Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

ccg aac aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg 96  
Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccg agc agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa 144  
Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

cgt atc ccg 153  
Arg Ile Pro  
50

<210> 62

<211> 51

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 62

Gln Thr Gln Pro Ser Lys Pro Thr Thr Lys Gln Arg Gln Asn Lys Pro  
1 5 10 15

Pro Asn Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Ser Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys  
35 40 45

Arg Ile Pro  
50

<210> 63

<211> 99

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(99)

<220>  
<223> G7AdC

<400> 63  
aaa ccg aac aac gat ttc cat ttc gaa gtg ttc aac ttc gtg ccg agc 48  
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser  
1 5 10 15

agc atc tgc agc aac aac ccg acc tgc tgg gcg atc agc aaa cgt atc 96  
Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile  
20 25 30

ccg 99  
Pro

<210> 64  
<211> 33  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 64  
Lys Pro Asn Asn Asp Phe His Phe Glu Val Phe Asn Phe Val Pro Ser  
1 5 10 15

Ser Ile Cys Ser Asn Asn Pro Thr Cys Trp Ala Ile Ser Lys Arg Ile  
20 25 30

Pro

<210> 65  
<211> 183  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(183)

<220>  
<223> G200B

<400> 65

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144  
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

acc atc ccg agc aac aaa ccg aaa aag aaa ccg acc atc 183  
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile  
50 55 60

<210> 66

<211> 61

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 66

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile  
50 55 60

<210> 67

<211> 177

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(177)

<220>

<223> G198B

<400> 67

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144  
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

acc atc ccg agc aac aaa ccg aaa aag aaa ccg 177  
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro  
50 55

<210> 68

<211> 59

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 68

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro  
50 55

<210> 69

<211> 171

<212> DNA

<213> Respiratory syncytial Virus (RSV)

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<220>

<221> CDS

<222> (1)..(171)

<220>

<223> G196B

<400> 69

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144  
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

acc atc ccg agc aac aaa ccg aaa aag 171  
Thr Ile Pro Ser Asn Lys Pro Lys Lys  
50 55

<210> 70

<211> 57

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 70

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys  
50 55

<210> 71

<211> 165

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(165)

<220>  
<223> G194B

<400> 71  
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144  
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

acc atc ccg agc aac aaa ccg 165  
Thr Ile Pro Ser Asn Lys Pro  
50 55

<210> 72  
<211> 55  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 72  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

Thr Ile Pro Ser Asn Lys Pro  
50 55

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<210> 73  
<211> 159



<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(159)

<220>

<223> G192B

<400> 73

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144  
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

acc atc ccg agc aac 159  
Thr Ile Pro Ser Asn  
50

<210> 74

<211> 53

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 74

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

---

Thr Ile Pro Ser Asn  
50

<210> 75  
<211> 153  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(153)

<220>  
<223> G6B

<400> 75  
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc tgc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa 144  
Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys  
35 40 45

acc atc ccg 153  
Thr Ile Pro  
50

<210> 76  
<211> 51  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 76  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15  
  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

~~Pro Cys Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys~~  
~~35 40 45~~

Thr Ile Pro  
50

<210> 77  
<211> 99  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(99)

<220>  
<223> G7B

<400> 77  
aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg ccc tgc 48  
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys  
1 5 10 15

agc atc tgc ggc aac aac cag ctg tgc aaa agc atc tgc aaa acc atc 96  
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile  
20 25 30

ccg 99  
Pro

<210> 78  
<211> 33  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 78  
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Cys  
1 5 10 15

Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Cys Lys Thr Ile  
20 25 30

Pro

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<210> 79

<211> 183  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(183)

<220>  
<223> G200BdC

<400> 79  
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144  
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

acc atc ccg agc aac aaa ccg aaa aag aaa ccg acc atc 183  
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile  
50 55 60

<210> 80  
<211> 61  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 80  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro Thr Ile  
50 55 60

<210> 81  
<211> 177  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(177)

<220>  
<223> G198BdC

<400> 81  
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144  
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

acc atc ccg agc aac aaa ccg aaa aag aaa ccg 177  
Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro  
50 55

<210> 82  
<211> 59  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 82  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15  
  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

---

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys Lys Pro  
50 55

<210> 83  
<211> 171  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(171)

<220>  
<223> G196BdC

<400> 83  
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144  
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

acc atc ccg agc aac aaa ccg aaa aag 171  
Thr Ile Pro Ser Asn Lys Pro Lys Lys  
50 55

<210> 84  
<211> 57  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 84  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

Thr Ile Pro Ser Asn Lys Pro Lys Lys  
50 55

<210> 85  
<211> 183  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(183)

<220>  
<223> G200V

<400> 85  
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144  
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

att gag acg gaa aga gca cca agc aga gca cca aca atc 183  
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile  
50 55 60

<210> 86  
<211> 61  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 86  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile  
50 55 60

<210> 87

<211> 165

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(165)

<220>

<223> G194BdC

<400> 87

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144  
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

acc atc ccg agc aac aaa ccg 165  
Thr Ile Pro Ser Asn Lys Pro  
50 55

<210> 88

<211> 55

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 88



Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

Thr Ile Pro Ser Asn Lys Pro  
50 55

<210> 89  
<211> 159  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(159)

<220>  
<223> G192BdC

<400> 89  
agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144  
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

acc atc ccg agc aac 159  
Thr Ile Pro Ser Asn  
50

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<210> 90  
<211> 53  
<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 90

Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

Thr Ile Pro Ser Asn  
50

<210> 91

<211> 153

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(153)

<220>

<223> G6BdC

<400> 91

agc acc cag acc aac aaa ccg agc acc aaa agc cgt agc aaa aac ccg 48  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15

ccg aaa aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg 96  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30

ccc agc agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa 144  
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45

acc atc ccg 153  
Thr Ile Pro  
50

---

<210> 92  
<211> 51  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 92  
Ser Thr Gln Thr Asn Lys Pro Ser Thr Lys Ser Arg Ser Lys Asn Pro  
1 5 10 15  
Pro Lys Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val  
20 25 30  
Pro Ser Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys  
35 40 45  
Thr Ile Pro  
50

<210> 93  
<211> 99  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(99)

<220>  
<223> G7BdC

<400> 93  
aaa ccg aaa gat gat tac cac ttc gaa gtg ttc aac ttc gtg ccc agc 48  
Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser  
1 5 10 15  
agc atc tgc ggc aac aac cag ctg tgc aaa agc atc agc aaa acc atc 96  
Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile  
20 25 30  
ccg 99  
Pro

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<210> 94  
<211> 33

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 94

Lys Pro Lys Asp Asp Tyr His Phe Glu Val Phe Asn Phe Val Pro Ser  
1 5 10 15

Ser Ile Cys Gly Asn Asn Gln Leu Cys Lys Ser Ile Ser Lys Thr Ile  
20 25 30

Pro

<210> 95

<211> 303

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(303)

<220>

<223> G2V

<400> 95

caa aac aga aaa atc aaa ggt caa tca aca cta cca gcc aca aga aaa 48  
Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys  
1 5 10 15

cca cca att aat cca tca gga agc atc cca cca gaa aac cat caa gac 96  
Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp  
20 25 30

cac aac aac ttc caa aca ctc ccc tat gtt ccc tgc agt aca tgt gaa 144  
His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu  
35 40 45

ggt aat ctt gca tgc tta tca ctc tgc cat att gag acg gaa aga gca 192  
Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala  
50 55 60

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cca agc aga gca cca aca atc acc ctc aaa aag aca cca aaa cca aaa 240  
Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys  
65 70 75 80

acc aca aaa aag cca acc aag aca aca atc cat cac aga acc agc cca 288  
Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro  
85 90 95

gaa acc aaa ctg caa 303  
Glu Thr Lys Leu Gln  
100

<210> 96  
<211> 101  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 96  
Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys  
1 5 10 15

Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp  
20 25 30

His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys Ser Thr Cys Glu  
35 40 45

Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu Thr Glu Arg Ala  
50 55 60

Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys  
65 70 75 80

Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro  
85 90 95

Glu Thr Lys Leu Gln  
100

<210> 97  
<211> 303  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(303)

<220>

<223> G2VdC

<400> 97

caa aac aga aaa atc aaa ggt caa tca aca cta cca gcc aca aga aaa 48  
Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys  
1 5 10 15

cca cca att aat cca tca gga agc atc cca cca gaa aac cat caa gac 96  
Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp  
20 25 30

cac aac aac ttc caa aca ctc ccc tat gtt ccc agc agt aca tgt gaa 144  
His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser Ser Thr Cys Glu  
35 40 45

ggt aat ctt gca tgc tta tca ctc agc cat att gag acg gaa aga gca 192  
Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu Thr Glu Arg Ala  
50 55 60

cca agc aga gca cca aca atc acc ctc aaa aag aca cca aaa cca aaa 240  
Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys  
65 70 75 80

acc aca aaa aag cca acc aag aca aca atc cat cac aga acc agc cca 288  
Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro  
85 90 95

gaa acc aaa ctg caa 303  
Glu Thr Lys Leu Gln  
100

<210> 98

<211> 101

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 98

Gln Asn Arg Lys Ile Lys Gly Gln Ser Thr Leu Pro Ala Thr Arg Lys  
1 5 10 15

Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro Pro Glu Asn His Gln Asp  
20 25 30

His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser Ser Thr Cys Glu  
35 40 45

Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu Thr Glu Arg Ala  
50 55 60

Pro Ser Arg Ala Pro Thr Ile Thr Leu Lys Lys Thr Pro Lys Pro Lys  
65 70 75 80

Thr Thr Lys Lys Pro Thr Lys Thr Thr Ile His His Arg Thr Ser Pro  
85 90 95

Glu Thr Lys Leu Gln  
100

<210> 99

<211> 177

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(177)

<220>

<223> G198V

<400> 99

cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144  
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

att gag acg gaa aga gca cca agc aga gca cca 177  
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro  
50 55

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<210> 100

<211> 59

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 100

Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro  
50 55

<210> 101

<211> 171

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(171)

<220>

<223> G196V

<400> 101

cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144  
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

att gag acg gaa aga gca cca agc aga 171  
Ile Glu Thr Glu Arg Ala Pro Ser Arg  
50 55



<210> 102  
<211> 57  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 102  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30  
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45  
Ile Glu Thr Glu Arg Ala Pro Ser Arg  
50 55

<210> 103  
<211> 165  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(165)

<220>  
<223> G194V

<400> 103  
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15  
cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30  
ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144  
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

---

att gag acg gaa aga gca cca  
Ile Glu Thr Glu Arg Ala Pro  
50 55

165

<210> 104  
<211> 55  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 104  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30  
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45  
Ile Glu Thr Glu Arg Ala Pro  
50 55

<210> 105  
<211> 159  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(159)

<220>  
<223> G192V

<400> 105  
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144  
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

att gag acg gaa aga 159  
Ile Glu Thr Glu Arg  
50

<210> 106  
<211> 53  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 106  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

Ile Glu Thr Glu Arg  
50

<210> 107  
<211> 153  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(153)

<220>  
<223> G6V

<400> 107  
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 144  
Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

att gag acg 153  
Ile Glu Thr  
50

<210> 108  
<211> 51  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 108  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
35 40 45

Ile Glu Thr  
50

<210> 109  
<211> 99  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(99)

<220>  
<223> G7V

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<400> 109

aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt ccc tgc 48  
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys  
1 5 10 15

agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat att gag 96  
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu  
20 25 30

acg 99  
Thr

<210> 110  
<211> 33  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 110  
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Cys  
1 5 10 15

Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His Ile Glu  
20 25 30

Thr

<210> 111  
<211> 183  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(183)

<220>  
<223> G200VdC

<400> 111  
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144  
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
35 40 45

att gag acg gaa aga gca cca agc aga gca cca aca atc 183  
Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile  
50 55 60

<210> 112  
<211> 61  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 112  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro Thr Ile  
50 55 60

<210> 113  
<211> 177  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(177)

<220>  
<223> G198VdC

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<400> 113

cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
 Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
 1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
 Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
 20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144  
 Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
 35 40 45

att gag acg gaa aga gca cca agc aga gca cca 177  
 Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro  
 50 55

<210> 114  
 <211> 59  
 <212> PRT  
 <213> Respiratory syncytial Virus (RSV)

<400> 114  
 Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
 1 5 10 15  
 Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
 20 25 30  
 Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
 35 40 45  
 Ile Glu Thr Glu Arg Ala Pro Ser Arg Ala Pro  
 50 55

<210> 115  
 <211> 171  
 <212> DNA  
 <213> Respiratory syncytial Virus (RSV)

<220>  
 <221> CDS  
 <222> (1)..(171)

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<220>  
 <223> G196VdC

<400> 115

cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48

Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro

1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val

20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His

35 40 45

att gag acg gaa aga gca cca agc aga

171

Ile Glu Thr Glu Arg Ala Pro Ser Arg

50 55

<210> 116

<211> 57

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 116

Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro

1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val

20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His

35 40 45

Ile Glu Thr Glu Arg Ala Pro Ser Arg

50 55

<210> 117

<211> 165

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(165)



<220>

<223> G194VdC

<400> 117

cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144  
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
35 40 45

att gag acg gaa aga gca cca 165  
Ile Glu Thr Glu Arg Ala Pro  
50 55

<210> 118

<211> 55

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 118

Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
35 40 45

Ile Glu Thr Glu Arg Ala Pro  
50 55

<210> 119

<211> 159

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS  
<222> (1)..(159)

<220>  
<223> G192VdC

<400> 119  
cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144  
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
35 40 45

att gag acg gaa aga 159  
Ile Glu Thr Glu Arg  
50

<210> 120  
<211> 53  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 120  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15  
  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30  
  
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
35 40 45  
  
Ile Glu Thr Glu Arg  
50

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<210> 121  
<211> 153  
<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(153)

<220>

<223> G6VdC

<400> 121

cta cca gcc aca aga aaa cca cca att aat cca tca gga agc atc cca 48  
Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

cca gaa aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt 96  
Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat 144  
Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
35 40 45

att gag acg 153  
Ile Glu Thr  
50

<210> 122

<211> 51

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 122

Leu Pro Ala Thr Arg Lys Pro Pro Ile Asn Pro Ser Gly Ser Ile Pro  
1 5 10 15

Pro Glu Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val  
20 25 30

Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His  
35 40 45

Ile Glu Thr  
50

---

<210> 123  
<211> 99  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(99)

<220>  
<223> G7VdC

<400> 123  
aac cat caa gac cac aac aac ttc caa aca ctc ccc tat gtt ccc agc 48  
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser  
1 5 10 15

agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc cat att gag 96  
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu  
20 25 30

acg 99  
Thr

<210> 124  
<211> 33  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 124  
Asn His Gln Asp His Asn Asn Phe Gln Thr Leu Pro Tyr Val Pro Ser  
1 5 10 15

Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser His Ile Glu  
20 25 30

Thr

<210> 125  
<211> 51  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(51)

<220>  
<223> G4V

<400> 125  
gtt ccc tgc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc 48  
Val Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys  
1 5 10 15

cat 51  
His

<210> 126  
<211> 17  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 126  
Val Pro Cys Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys  
1 5 10 15

His

<210> 127  
<211> 51  
<212> DNA  
<213> Respiratory syncytial Virus (RSV)

<220>  
<221> CDS  
<222> (1)..(51)

<220>  
<223> G4VdC

<400> 127

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gtt ccc agc agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc agc 48  
Val Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser  
1 5 10 15

cat 51  
His

<210> 128  
<211> 17  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<400> 128  
Val Pro Ser Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Ser  
1 5 10 15

His

<210> 129  
<211> 17  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<220>  
<223> Xaa means orn.

<220>  
<223> G4'V

<400> 129  
Val Pro Asp Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Xaa  
1 5 10 15

His

<210> 130  
<211> 17  
<212> PRT  
<213> Respiratory syncytial Virus (RSV)

<220>

<223> Xaa means orn.

<220>

<223> G4'vdC

<400> 130

Val Pro Ser Ser Thr Asp Glu Gly Asn Leu Ala Xaa Leu Ser Leu Ser  
1 5 10 15

His

<210> 131

<211> 42

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(42)

<220>

<223> G1V

<400> 131

agt aca tgt gaa ggt aat ctt gca tgc tta tca ctc tgc cat 42  
Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
1 5 10

<210> 132

<211> 14

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 132

Ser Thr Cys Glu Gly Asn Leu Ala Cys Leu Ser Leu Cys His  
1 5 10

---

<210> 133

<211> 42

<212> DNA

<213> Respiratory syncytial Virus (RSV)

<220>

<221> CDS

<222> (1)..(42)

<220>

<223> G1VdC

<400> 133

agt	aca	tgt	gaa	ggt	aat	ctt	gca	tcg	tta	tca	ctc	agc	cat	42
Ser	Thr	Cys	Glu	Gly	Asn	Leu	Ala	Cys	Leu	Ser	Leu	Ser	His	
1			5			10								

<210> 134

<211> 14

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<400> 134

Ser	Thr	Cys	Glu	Gly	Asn	Leu	Ala	Cys	Leu	Ser	Leu	Ser	His
1			5			10							

<210> 135

<211> 14

<212> PRT

<213> Respiratory syncytial Virus (RSV)

<220>

<223> Xaa means orn.

<220>

<223> G1'VdC

<400> 135

Ser	Thr	Asp	Glu	Gly	Asn	Leu	Ala	Xaa	Leu	Ser	Leu	Ser	His
1			5			10							

<210> 136

<211> 15

<212> PRT

<213> Respiratory syncytial Virus (RSV)



<220>

<223> Xaa means orn.

<220>

<223> G1'

<400> 136

Ser Ile Asp Ser Asn Asn Pro Thr Xaa Trp Ala Ile Ser Lys Cys

1

5

10

15

C1 conclude

